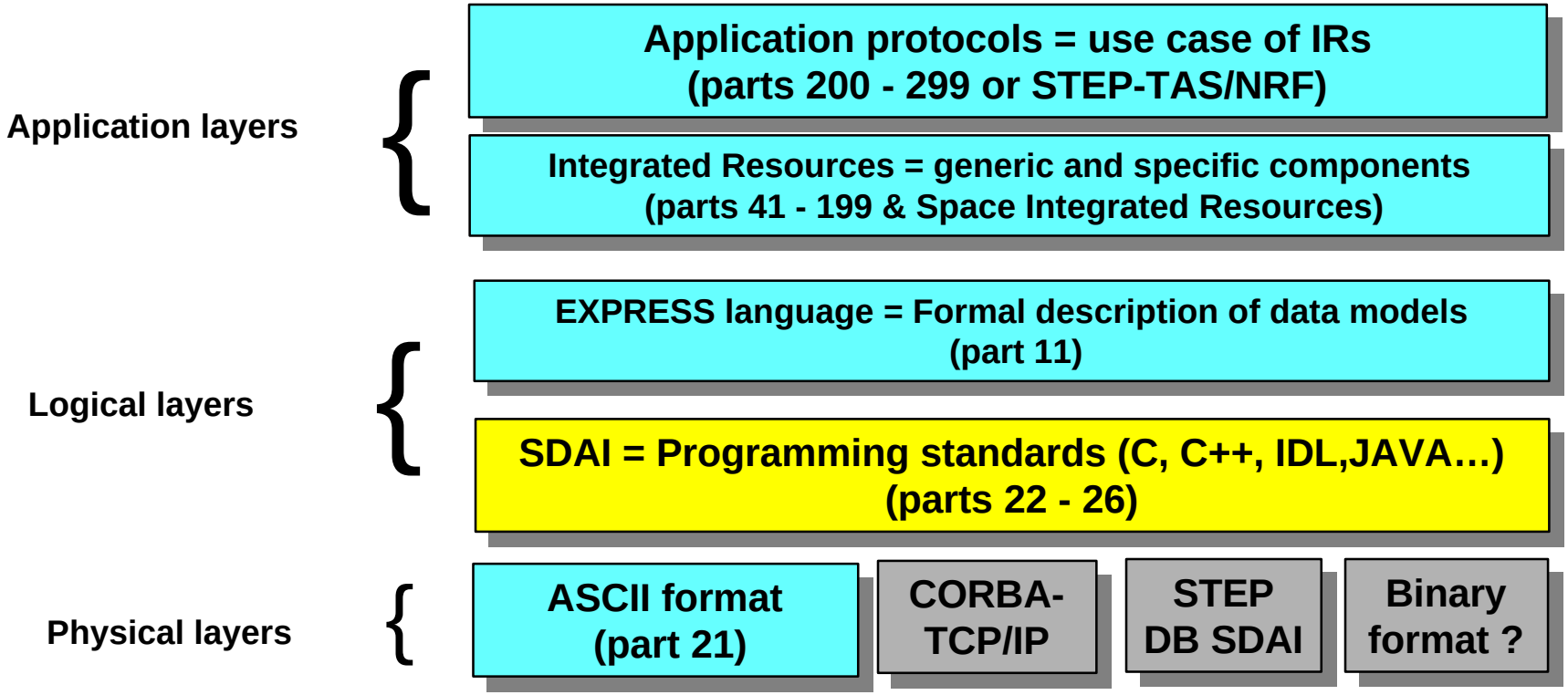
What is **STEP**?

- **ST**andard for the **E**xchange of **P**roduct Data
- an **ISO** standard (ISO 10303)
- Designed to cover all information through a product's life cycle
- Includes standard formats (APs), language (Express) and APIs (SDAI)

STEP's Layered Architecture

- **An ISO standard (10303) that consists of distributed parts**



How is STEP being used in Industry

- Boeing 777 engines - Boeing, Pratt-Whitney, GE & Rolls Royce
- Mechanical Design - GM, Ford, Chrysler,
- Electronic Design - Delco, Boeing, Rockwell
- Cabling - Siemens (European Auto Industry)
- Analysis - European Space Agency (ESTEC, CNES)
- Parts Libraries - PLIB Consortium (Europe)

STEP *can tie engineering data together the way the Internet (TCP/IP) ties computers together*

How is STEP being used at JPL

- Thermal Analysis - (Georg Siebes)
- Mechanical Design - DS1 (Brian Okerlund, Jim Baughman)
- Mechanical Design - Mars ‘01 (Dave Levitt)
- Visualization - ObjectLogic Model Viewer

What is needed to make STEP work Lab-wide

- Develop relationships in STEP industrial community
- Develop STEP services infrastructure that ride on JPL's network

- Translation Services
- Validation Services
- Repository Services
- Tool Services
- Part Library Services
- Visualization Services
- Information/Training Services
- Directory Services